

STRUCTURAL GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE **2006** INTERNATIONAL BUILDING CODE AND THE COUNTY OF HAWAII AMENDMENTS.

2. STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND DO NOT SPECIFY THE MEANS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEANS NECESSARY TO PROTECT THE STRUCTURE, AND ANY ADJACENT NEW OR EXISTING STRUCTURES, DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING AND SHORING FOR LOADS ACTING ON THE STRUCTURE DURING CONSTRUCTION.

OBSERVATION BY THE STRUCTURAL ENGINEER DURING CONSTRUCTION WILL NOT INCLUDE INSPECTION OF AFOREMENTIONED BRACING AND SHORING.

3. EXISTING CONDITIONS ARE SHOWN TO THE BEST OF OUR KNOWLEDGE. DISCREPANCIES SHALL PROMPTLY BE REPORTED TO THE ARCHITECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.

4. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES, WHICH MAY BE AFFECTED BY HIS WORK. INTERFERENCES WITH THE STRUCTURE SHALL PROMPTLY BE REPORTED TO THE ARCHITECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.

5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND VERIFYING ALL DIMENSIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL STRUCTURAL DISCREPANCIES, AND THESE DISCREPANCIES SHALL BE RESOLVED PRIOR TO PROCEEDING WITH THE WORK.

6. SHOULD A DISCREPANCY OCCUR ON THE DRAWINGS BETWEEN ANY PROJECT SPECIAL NOTES/SPECIAL DETAILS, AND THE TYPICAL SPECS/TYPICAL DETAILS, SAID SPECIAL NOTES/SPECIAL DETAILS SHALL TAKE PRECEDENCE.

7. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF ARCHITECTURAL OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS.

8. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF ELECTRICAL/MECHANICAL PENETRATIONS SHOWN ON THE STRUCTURAL DRAWINGS.

9. PENETRATIONS AND OPENINGS WITH ANY DIMENSION GREATER THAN 2" THAT ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE PROHIBITED UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. NO PENETRATION SHALL BE ALLOWED THROUGH ANY STRUCTURAL MEMBER WITHOUT THE APPROVAL OF THE ENGINEER.

10. ANY CONSTRUCTION MATERIAL THAT IS TEMPORARILY PLACED ON FLOOR AND/OR ROOF FRAMING SHALL BE DISTRIBUTED OVER THE FRAMING SYSTEM SUCH THAT THE CONSTRUCTION LOAD DOES NOT EXCEED THE LOAD THAT THE FRAMING SYSTEM WAS DESIGNED FOR.

11. DESIGN CRITERIA –

A. CODES AND STANDARDS

1. INTERNATIONAL BUILDING CODE, **2006** EDITION

B. DESIGN LIVE LOADS

1. ROOF

2. CEILING
- = 20 PSF

= 20 PSF

C. DESIGN DEAD LOADS (ADDITIONAL TO SELF WEIGHT)

1. FINISH @ ROOF

2. MECHANICAL & ELECTRICAL @ ROOF

3. COLLATERAL ROOF LOAD (FUTURE PV MODULES)

4. BASKETBALL BACKSTOP (WHERE IT OCCURS)

5. GYM DIVIDER (WHERE IT OCCURS)

4. WALL LOUVERS & CLERSTORY(WHERE IT OCCURS)
- = 9 PSF

= 4 PSF

= 3 PSF

= 3000 LB (CONCENTRATED)

= 20LB/LF

= PER MANUFACTURER

D. WIND

- BASIC WIND SPEED

EFFECTIVE WIND SPEED / Kzt

EXPOSURE CATEGORY

PRIMARY FRAME DESIGN METHOD

BUILDING CLASSIFICATION

IMPORTANCE FACTOR
- 105 MPH

100 MPH / 1.0

C

METHOD 2 (ANALYTICAL PROCEDURE)

PARTIALLY OPENED–STEEL FRAMED (P.E.M.B.)

ENCLOSED– CMU PORTIONS

1.15

E. SEISMIC

- OCCUPANCY CATEGORY

SITE CLASS

Sds

Sd1

SEISMIC DESIGN CATEGORY

IMPORTANCE FACTOR
- III

B

1.55 g

0.66 g

E

1.25

12. SHOP DRAWINGS REQUIRED BY THE SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENTS.
13. THE CONTRACTOR SHALL DETAIL ALL MEMBERS AND CONNECTIONS NOT SHOWN BUT WHICH ARE REQUIRED AND SHALL SUBMIT THEM TO THE ENGINEER FOR REVIEW. COST OF THESE MEMBERS AND CONNECTIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE.
14. ALL COSTS FOR SATISFYING THE REQUIREMENTS OF THESE CONSTRUCTION DOCUMENTS SHALL BE BORNE BY THE CONTRACTOR.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE ADJACENT PROPERTIES, STRUCTURES, STREETS AND UTILITIES DURING THE CONSTRUCTION PERIOD.
16. DETAILS NOTED AS TYPICAL ON THE STRUCTURAL DRAWINGS SHALL APPLY IN ALL CONDITIONS UNLESS SPECIFICALLY SHOWN OR NOTED.

17. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS MUST SUBMIT IN WRITING ANY REQUESTS FOR PRE-ENGINEERED METAL BUILDING:

1. PRE-ENGINEERED METAL BUILDING SHALL COMPLY WITH THE DESIGN REQUIREMENTS OF THE 2006 IBC AND THE COUNTY OF HAWAII AMENDMENTS.
2. THE PRE-ENGINEERED METAL BUILDING SHALL BE DESIGNED TO HAVE A MAXIMUM DEFLECTION OF H/200.
2. PRE-ENGINEERED METAL BUILDING DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF HAWAII.
3. LOADING FOR THE PRE-ENGINEERED METAL BUILDING SHALL COMPLY WITH THE DESIGN CRITERIA LISTED IN THE GENERAL STRUCTURAL NOTES.
4. FOUNDATION FORMWORK SHALL BE PLACED ONLY AFTER ANCHOR BOLT PLACEMENT PLAN AND BUILDING SHOP DRAWINGS HAVE BEEN RECEIVED AND REVIEWED BY THE STRUCTURAL ENGINEER. ANCHOR BOLT PLACEMENT PLAN AND SHOP DRAWINGS SHALL BE SUBMITTED AT LEAST 2 WEEKS PRIOR TO CONSTRUCTION OF FORMWORK. FOUNDATION DESIGN IS SUBJECT TO CHANGE BASED ON SHOP DRAWING REVIEW.
5. BRACING LOCATIONS ARE SPECIFIED ON PLAN. DO NOT LOCATE BRACING IN THE SAME BAY AS WINDOWS OR DOOR OPENINGS.
6. MANUFACTURER TO SUBMIT DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS FOR REVIEW.

CONCRETE

1. ALL CONCRETE UNLESS OTHERWISE NOTED SHALL BE REGULAR WEIGHT HARD ROCK TYPE (150#/CU.FT.).
2. ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318–**05**) WITH MODIFICATIONS AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
3. SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES:
- LOCATION OF STRUCTURE

STRENGTH

SLAB ON GRADE, & GRADE BEAMS, STRUCTURAL SLABS

3000 PSI

ALL OTHER CONCRETE

3000 PSI
4. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE I OR TYPE II.
5. AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS.
6. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR HIS REVIEW 2 WEEKS PRIOR TO POUR.
7. CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C-94.
8. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 301 AND PROJECT SPECIFICATIONS.
9. UNLESS OTHERWISE NOTED ON THE PLANS, MINIMUM CLEAR COVERAGE OF NEW CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS:

- A. CONCRETE POURED DIRECTLY AGAINST EARTH.....3" CLEAR TO REINFORCING

B. WALL FACES:

EXPOSED TO EARTH WITH FORMED SURFACES OR EXPOSED TO WEATHER.....1–1/2" CLEAR FOR #5 BAR & SMALLER 2" CLEAR FOR #6 BARS & LARGER

INTERIOR FACES.....3/4" CLEAR

C. BEAMS AND COLUMNS:

NOT EXPOSED TO EARTH OR WEATHER.....1–1/2" CLEAR TO STIRRUPS & TIES

FORMED AND EXPOSED TO EARTH OR WEATHER.....1 1/2" CLEAR TO STIRRUPS & TIES

D. STRUCTURAL SLABS.....1" CLEAR AT TOP AND BOTTOM

10. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
11. PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, EQUIPMENT PADS, ETC., SHALL BE FORMED WITH 3/4" CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
12. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
13. CONDUIT OR PIPE SIZE (O.D.) THAT IS BURIED IN ANY CONCRETE SLABS SHALL NOT EXCEED 25 PERCENT OF SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.
14. THE CONCRETE SLAB THICKNESS SHALL BE MAINTAINED AS A MINIMUM UNLESS OTHERWISE SHOWN.
15. PROVIDE TWO-WEEK SCHEDULES SHOWING EXPECTED CONCRETE POUR LOCATIONS AND TIMES. NOTIFY STRUCTURAL ENGINEER AND SPECIAL INSPECTOR 48 HOURS PRIOR TO ANY CONCRETE POUR IF DIFFERENT THAN ON TWO-WEEK SCHEDULE.
16. CONCRETE ADMIXTURES CONTAINING CHLORIDE OR CHLORIDE SALTS SHALL NOT BE USED.
17. SEE SPECIFICATIONS FOR CONCRETE WITH SPECIAL CORROSION PROTECTION REQUIREMENTS.
18. ALL ROUGHENED SURFACES IN CONCRETE SHALL BE MADE WITH A MINIMUM AMPLITUDE OF 1/4"

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318–**05**), THE CRSI "MANUAL OF STANDARD PRACTICE," AND THE "ACI DETAILING MANUAL (SP-66) AS MODIFIED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.
2. REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60 REQUIREMENTS. #4 AND SMALLER BARS MAY BE GRADE 40.
3. ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.
4. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
5. REINFORCING SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS.
6. DOWELS BETWEEN FOOTING AND WALL OR COLUMNS SHALL BE THE SAME GRADE, SIZE, SPACING, AND NUMBER AS THE VERTICAL REINFORCING RESPECTIVELY, U.O.N.
7. WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
8. CONTRACTOR SHALL SUBMIT REINFORCING BAR LAYOUTS AND DETAILS FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION. FABRICATE FROM REVIEWED DRAWINGS ONLY.
9. REINFORCING BARS SHALL BE AS LONG AS PRACTICABLE AND AS DETAILED AND SHALL BE LAPPED AT SPLICES AND CORNERS NOT LESS THAN 32 BAR DIAMETER (24" MINIMUM), UNLESS OTHERWISE SHOWN. STAGGER HORIZONTAL WALL BAR SPLICES. IN GENERAL, BAR SPLICES SHALL BE MADE AT POINTS OF MINIMUM STRESS. IN BEAMS AND SLABS, SPLICE TOP BARS AT MID-SPAN, BOTTOM BARS OVER SUPPORTS, UNLESS OTHERWISE SHOWN. EMBEDDED METAL COMPONENTS MADE UP OF ALLOYS THAT ARE
10. DIS-SIMILAR TO THAT OF THE REINFORCING STEEL SHALL NOT BE ATTACHED DIRECTLY TO REINFORCING. MEASURES SHALL BE TAKEN TO ELECTRICALLY ISOLATE SAID COMPONENTS FROM ANY REINFORCING TO PREVENT CATHODIC EFFECTS.

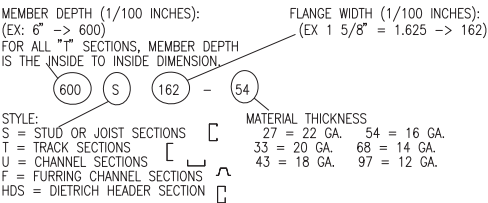
COLD FORMED STEEL FRAMING

1. COLD-FORMED STEEL FRAMING SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING DESIGN STANDARDS:

A. "AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"

B. "ASTM C1007 "STANDARD SPECIFICATION FOR INSTALLATION OF LOAD BEARING STEEL STUDS AND RELATED ACCESSORIES"

C. AWS D.1.3 "STRUCTURAL WELDING CODE – SHEET STEEL"
2. COLD-FORMED STEEL FRAMING REFERENCES ARE FROM THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) AND ARE CONSISTENT WITH THE NOTATION BELOW:



3. COLD-FORMED STEEL FRAMING MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM SPECIFICATIONS, LATEST EDITION:

A. 18 GA. AND LIGHTER ASTM A653 SS GRADE 230

OR ASTM A1011 SS GRADE 230

B. 16 GA. AND HEAVIER ASTM A653 SS GRADE 340, CLASS 1 OR 3

OR ASTM A1011 SS GRADE 340
4. CONNECTIONS FOR COLD-FORMED STEEL SHALL CONFORM TO THE "AISI FASTENERS FOR RESIDENTIAL STEEL FRAMING RG-933," LATEST EDITION INCLUDING THE FOLLOWING:

A. SELF DRILLING SCREWS: ASTM C1002 TYPE S /ASTM C954 TYPE S-12

B. BOLTS, NUTS AND WASHERS: ASTM A90

C. WELDED CONNECTIONS SHALL CONFORM TO AWS D1.3 E60 AND BE MADE IN THE SHOP. MEMBERS WITH BURN THRU'S SHALL BE REPLACED OR REPAIRED.
5. PROVIDE ADEQUATE MEASURES TO ENSURE THE CORROSION RESISTANCE OF THE STEEL MATERIALS AND FASTENERS. GALVANIZED COATINGS SHALL CONFORM TO ASTM C955, G60 MINIMUM. WELD AREAS SHALL BE RE-TOUCHED WITH THE APPROPRIATE PAINT OR COLD GALVANIZING TO RETAIN CORROSION RESISTANCE.
6. ALL COLD ROLLED STEEL STUDS, JOIST AND TRACK MILL CERTIFIED STEEL TO MEET: SSMA ICBO # ER-4943P

A. ASTM A446-GRADE D 14 AND 16 GA. GALV. STEEL, Fy = 50 ksi.

B. ASTM A446-GRADE A 25 - 18 GA. GALV. STEEL, Fy = 33 ksi.
7. ALL STEEL STUDS, JOIST AND TRACK SHALL HAVE A LEGIBLE LABEL, STAMP OR EMBOSSEMENT, AT A MAXIMUM OF 48" O.C. INDICATING THE MANUFACTURER'S NAME, LOGO OR INITIALS, ICBO EVALUATION SERVICE REPORT NUMBER, THE MATERIAL BASE METAL THICKNESS (UNCOATED) IN .001 in. AND THE YIELD STRENGTH IF DIFFERENT THAN 33 ksi.

FOUNDATION

1. THE FOUNDATION DESIGN WAS BASED ON THE THE GEOTECHINCAL INVESTIGATION REPORT DATED SEPTEMBER 25, 2013, BY CONSTRUCTION ENGINEERING LABS.
- ALLOWABLE SOIL BEARING PRESSURE = 3000 PSF (DEAD + LIVE)
ALLOWABLE INCREASE FOR WIND OR SEISMIC, 1000 PSF = 4000 PSF (TOTAL)
ALLOWABLE PASSIVE EARTH RESISTANCE = 600 PCF
FRICTIONAL RESISTANCE = 0.45 x DEAD LOAD
2. ANY FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS. FLOODING IS PROHIBITED.
3. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER, OR SEEPAGE.

CMU:

1. ALL CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, LATEST EDITION, WITH COMPRESSIVE STRENGTH OF 1,900 PSI.
2. MORTAR SHALL BE PROPORTIONED AS NECESSARY TO CONFORM TO THE REQUIREMENTS OF IBC TABLE 2103.8 (ASTM C270) FOR TYPE M OR S MORTAR.
3. GROUT SHALL CONFORM TO ASTM C476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.
4. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF THE MASONRY WALL ASSEMBLAGE AT 28 DAYS (F'm) SHALL BE 1500 PSI.
5. BEFORE BLOCK IS PLACED ON CONCRETE, THOROUGHLY CLEAN CONCRETE OF ALL LAITANCE AND ALL LOOSE MATERIAL. ROUGHEN AS IN A CONCRETE CONSTRUCTION JOINT.
6. PLACE ALL HORIZONTAL BARS IN BOND BEAM UNITS. WHEN 2 BARS ARE USED, STAGGER LAPS A MINIMUM OF 5'-0". VERTICAL REINFORCING SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVAL NOT EXCEEDING 200 BAR DIAMETERS. TIE LAP SPLICE TO DOWEL BAR, IF REBAR POSITIONER IS NOT USED NEAR THE DOWEL BAR.
7. ALL EMBEDDED ITEMS (BOLTS, ETC.) SHALL BE SECURED IN PLACE PRIOR TO GROUTING. PROVIDE A MINIMUM OF 1" GROUT AROUND ALL BOLTS IN MASONRY.
8. CLEAN ALL CELLS AND BOND BEAMS OF EXCESSIVE MORTAR PROTRUSIONS AND OTHER DEBRIS BEFORE GROUTING.
9. MAXIMUM GROUT POUR WITHOUT CLEANOUT IS 5'-4" IN BLOCK WALL. WHEN GROUT POUR IS MORE THAN 5'-4" HIGH, CLEANOUTS SHALL BE AT EVERY VERTICAL BAR BUT NOT MORE THAN 32" O.C. IF REQUIRED, CLEANOUTS SHALL NOT BE SEALED BEFORE INSPECTION. THE THICKNESS OF GROUT BETWEEN BLOCK AND REINFORCING STEEL SHALL NOT BE LESS THAN 1/2", AND BETWEEN PARALLEL BARS NOT LESS THAN 3/4".
10. ALL CELLS SHALL BE SOLIDLY FILLED WITH GROUT.

11. WHEN GROUTING IS STOPPED FOR A PERIOD OF ONE HOUR OR LONGER, FORM HORIZONTAL CONSTRUCTION JOINTS BY STOPPING THE GROUT POUR 1.5 INCHES MINIMUM BELOW THE UPPER-MOST UNIT, EXCEPT AT TOP OF WALL.
12. WHEN SHOWN ON THE DRAWING, CONTROL JOINTS SHALL BE PLACED NOT LESS THAN 24" FROM A BEARING PLATE OR JAMB OF AN OPENING. PLACE BOND BEAM REINFORCING CONTINUOUS THROUGH EXPANSION AND CONTROL JOINTS, WRAPPING BARS WITH 1/8" THICK BOND BREAKING TAP 24" ON BOTH SIDES OF JOINT. DO NOT SPLICE BOND BEAM REINFORCING WITHIN 6'-0" OF AN EXPANSION OR CONTROL JOINT. LOCATION OF CONTROL JOINTS SHOULD BE COORDINATED WITH THE ENGINEER.
13. THE CONTRACTOR SHALL LOCATE CONSTRUCTION JOINTS SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE AND TO MINIMIZE SHRINKAGE STRESSES.
14. WALLS SHALL BE CONSTRUCTED IN CONVENTIONAL RUNNING BOND, UNLESS OTHERWISE NOTED.

SPECIAL INSPECTION:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT SPECIAL INSPECTION OF PORTIONS OF THE WORK, AS REQUIRED BY THE BUILDING CODE OF THE COUNTY OF HAWAII, BE MADE AT THE APPROPRIATE TIME. THE CONTRACTOR SHALL GIVE TIMELY NOTICE OF WHEN AND WHERE INSPECTIONS ARE TO BE MADE AND PROVIDE ACCESS FOR THE INSPECTOR. THE CONTRACTOR SHALL CORRECT DEFECTIVE WORK AT NO ADDITIONAL COST TO THE OWNER AND THE CONTRACTOR SHALL PAY FOR RE-INSPECTION.
2. CONTRACTOR IS RESPONSIBLE TO RETAIN LICENSED SPECIAL INSPECTORS IN COUNTY OF HAWAII TO PERFORM ALL SPECIAL INSPECTIONS REQUIRED AS LISTED BELOW. SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORT WITHIN 3 DAYS OF INSPECTION AND PRIOR TO ACCEPTANCE OF THE WORK
3. THE FOLLOWING IS A SUMMARY OF THE SPECIAL INSPECTION REQUIREMENTS:

INSPECTION OF P.E.M.B. MANUFACTURER

HIGH STRENGTH STEEL BOLTS

WELDING

CONCRETE REINFORCING STEEL & FORMWORK

ANCHOR BOLTS (RODS) IN CONCRETE

CONCRETE POUR

CONCRETE CYLINDER TEST

CONCRETE MASONRY

SOILS

WOOD CONSTRUCTION

SEISMIC RESISTANCE

YES, PER IBC 1704.2.2, INSPECTION IS NOT REQUIRED IF WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

YES

NO, NONE USED IN DESIGN

YES, PER IBC TABLE 1704.4

YES, PER IBC TABLE 1704.4

YES PER IBC 1704.4.2.3

YES, 3 CYLINDERS PER 50 YD.

YES, PER IBC 1704.5

NO, CONTROLLED FILL IS LESS THAN 12" THICK

NO

YES, PER IBC 1705.3

DESIGNED BY: JTB

DRAWN BY: JTB

CHECKED BY: YWF

SHEET NO.

S-PC001

DATE: 2014-02-10

OF SHEETS

COUNTY OF HAWAII
DEPARTMENT OF PARKS & RECREATION
101 PALAMU STREET SUITE C7 HILLO, HAWAII 96720 / PHONE: 808.985.8311 / FAX: 808.985.8411

PAHOA PARK MASTER PLAN
PHASE I - BID SUBMITTAL 2014-02-10

JOB NO.: PR-4234

PAHOA, PUNA, HAWAII

COVERED PLAYCOURT STRUCTURAL NOTES

ENGINEERING PARTNERS, INC.
Progressive Solutions
455 ELANIKAULA STREET
HILLO, HAWAII 96720
www.epnintegrated.com

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

Signature

SIGNATURE

MARK

DATE

DESCRIPTION

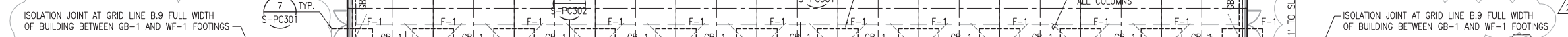
ADD. 3: REVISED DESIGN LOADS AND MAXIMUM DEFLECTION

ADD. 6: REVISED LOADS, CONC. TYPE & INSPECTION OF P.E.M.B. FABRICATOR

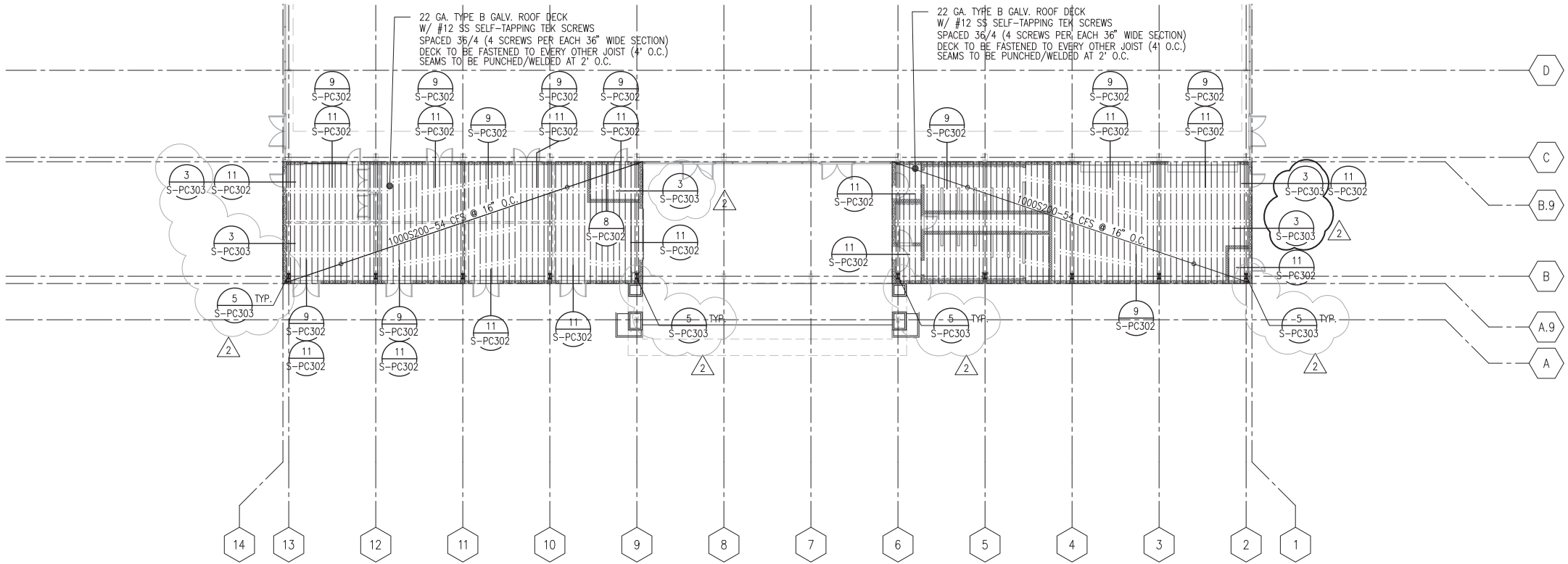
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DEPARTMENT OF PARKS AND RECREATION

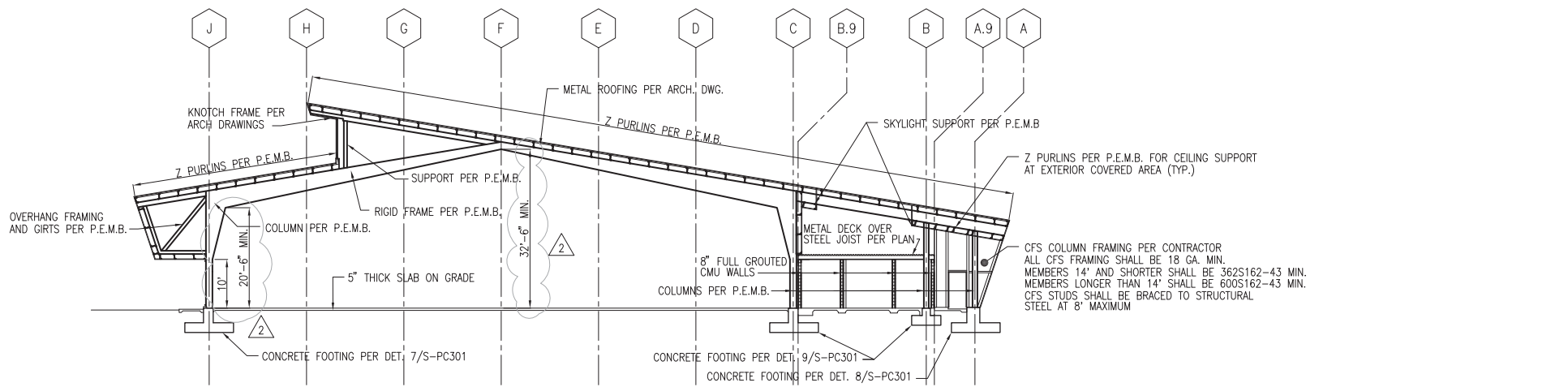
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DATE: _____ OF _____ SHEETS




A COVERED PLAYCOURT - PARTIAL CEILING FRAMING PLAN
SCALE: 1/16" = 1'-0"



B COVERED PLAYCOURT BUILDING SECTION-GRIDLINES 6 & 9
SCALE: 1/16" = 1'-0"



Engineering Partners, Inc.
Progressive Solutions
455 ELANIKAULA STREET
HILO, HAWAII 96720
www.eptintegrated.com



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

Men Fatig
SIGNATURE

MARK	DATE	DESCRIPTION
2	2014-5-7	ADD: 6: MINIMUM CLR. FOR BUILDING FRAMES ADDED & CEILING DETAILS REVISED

DESIGNED BY: JTB
DRAWN BY: JTB
CHECKED BY: YWF

DATE: 2014-02-10

S-PC201

OF SHEETS

PAHOA PARK MASTER PLAN
PHASE I - BID SUBMITTAL 2014-02-10

COVERED PLAYCOURT PARTIAL CEILING FRAMING PLAN & BUILDING SECTION

JOB NO.: PR-4234

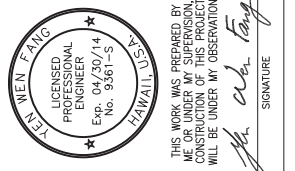
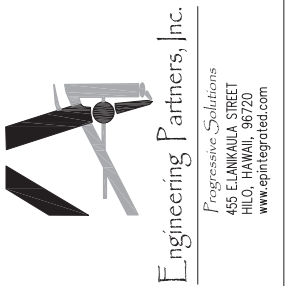
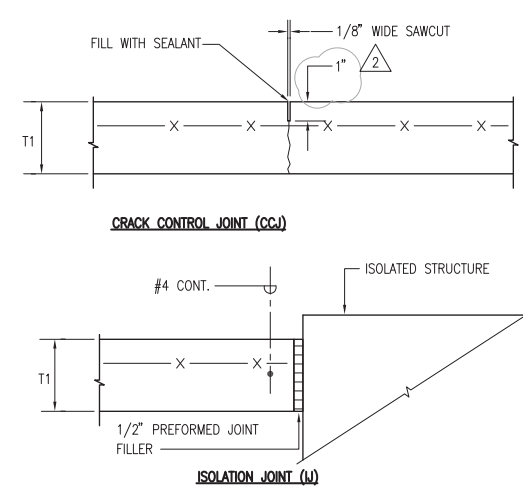
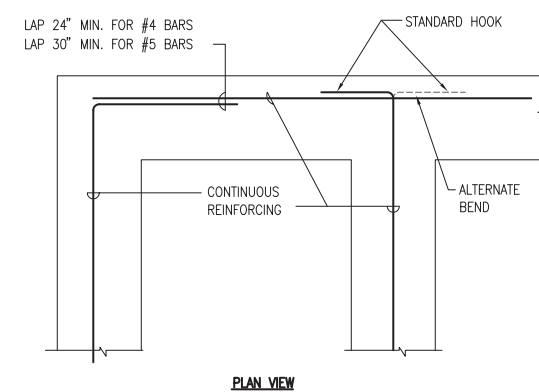
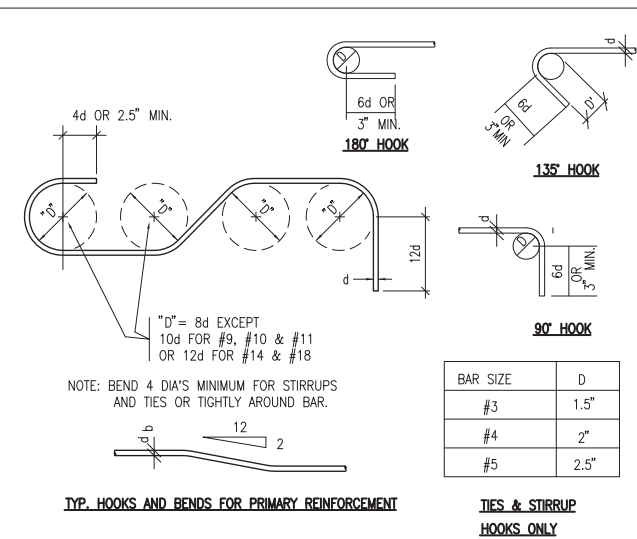
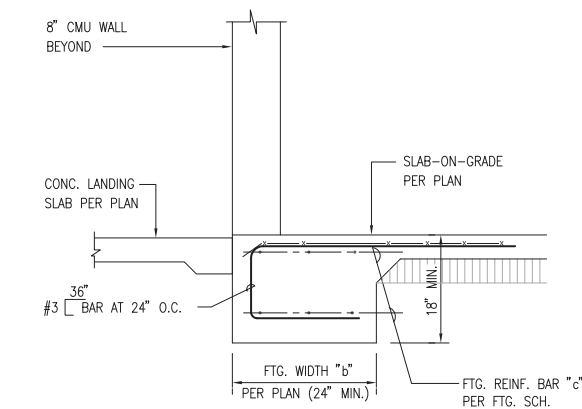
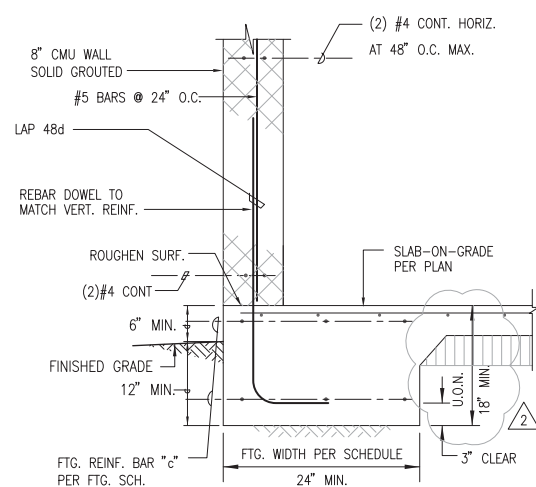
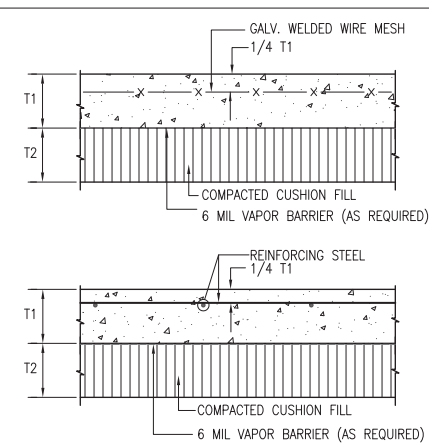
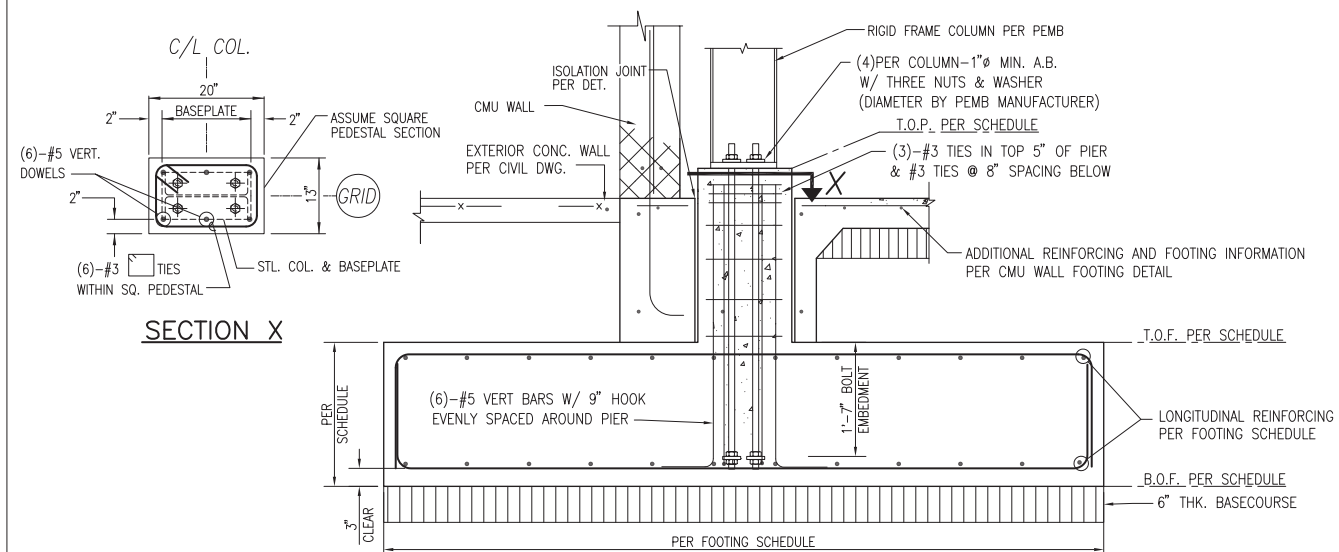
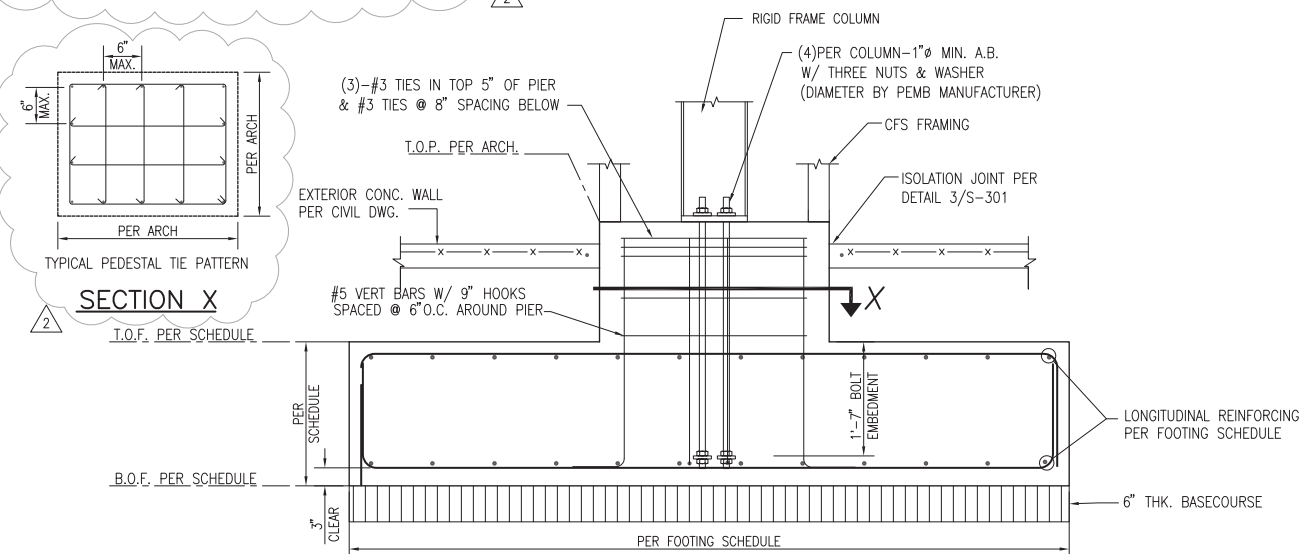
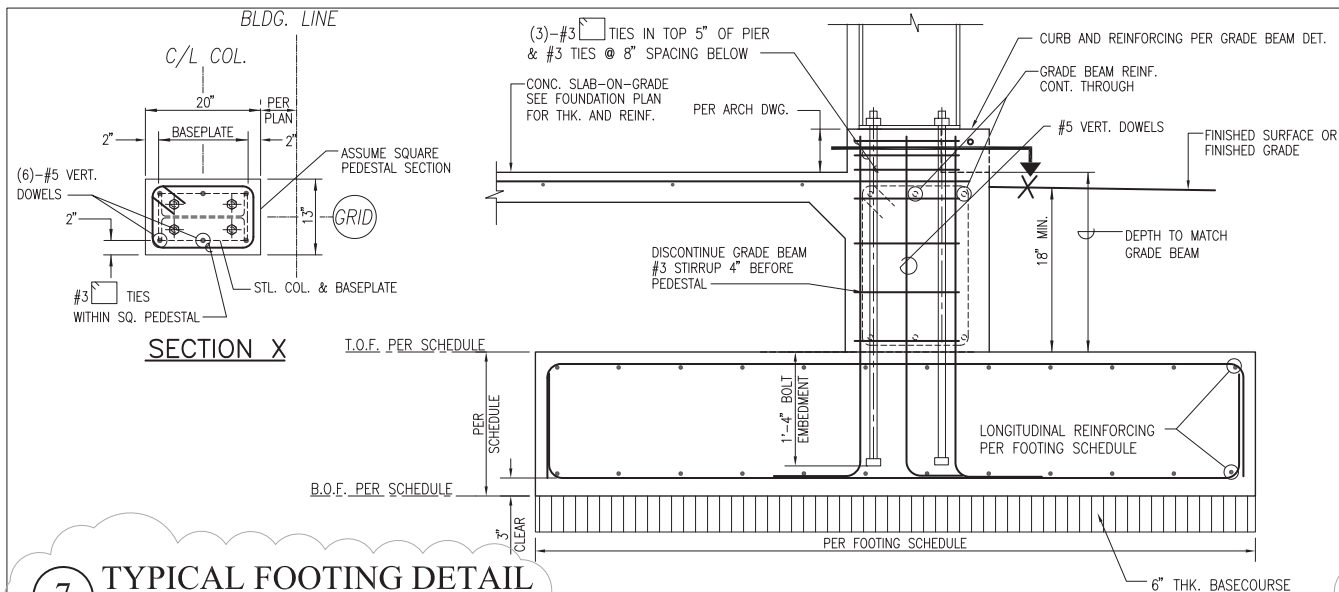
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PAHOA, PUNA, HAWAII


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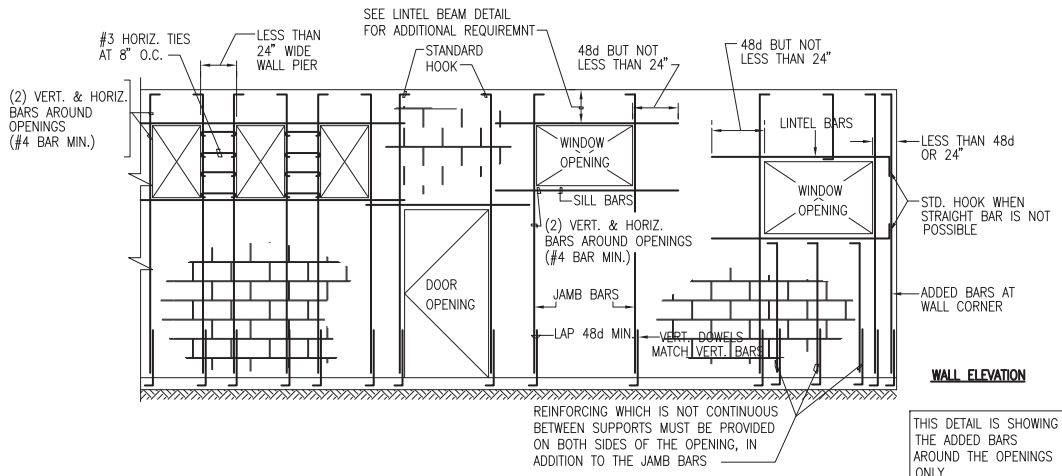
COUNTY OF HAWAII
DEPARTMENT OF PARKS & RECREATION
101 PAUHAU STREET, SUITE C7, HILO, HAWAII 96720 / PHONE: 808.961.8311 / FAX: 808.961.8411

PAHOA PARK MASTER PLAN
PHASE I - BID SUBMITTAL 2014-02-10

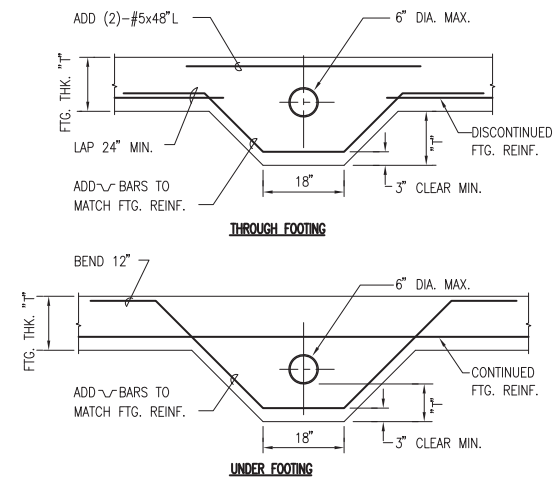


MARK	DATE	DESCRIPTION
①	2014-4-10	ADD: 3: DETAIL 7 REVISED FOR CLARITY. AP SPLICE CHANGED TO 48d ON DETAIL 5
②	2014-5-7	ADD: 6: DETAIL 3, 4, 5, 7 & 8 REVISED FOR CLARITY
REVIEWED: _____		
DEPARTMENT OF PARKS AND RECREATION		DATE _____

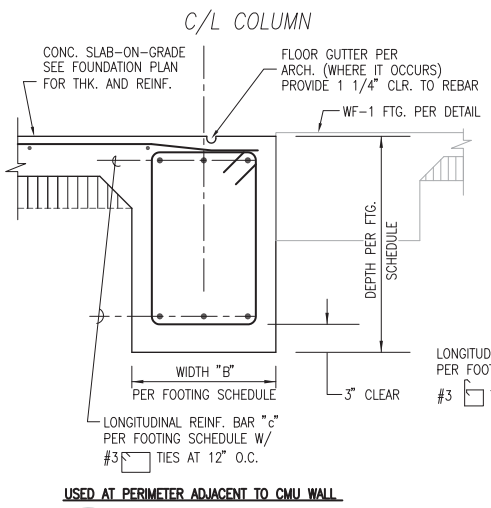
DESIGNED BY: JTB	 <p>COUNTY OF HAWAII DEPARTMENT OF PARKS & RECREATION 101 PALAHU STREET, SUITE 6 / HILO, HAWAII 96720 / PHONE: 808.961.8311 / FAX: 808.961.8411</p>	<p>PAHOA PARK MASTER PLAN PHASE I - BID SUBMITTAL 2014-02-10</p>	<p>JOB NO.: PR-4234 PAHOA, PUNA, HAWAII</p>	<p>TMK: (3) 1-5-002:020</p>
DRAWN BY: JTB				
CHECKED BY: YWF				
<p>SHEET NO. S-PC301</p>		<p>OF SHEETS</p>	<p>PLAN SHEET DESCRIPTION:</p>	<p>COVERED PLAYCOURT STRUCTURAL DETAILS</p>
<p>DATE: 2014-02-10</p>				



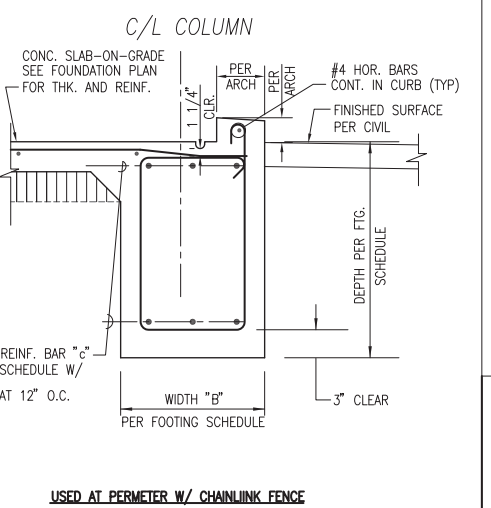
7 TYP. CMU WALL OPENING
NOT TO SCALE



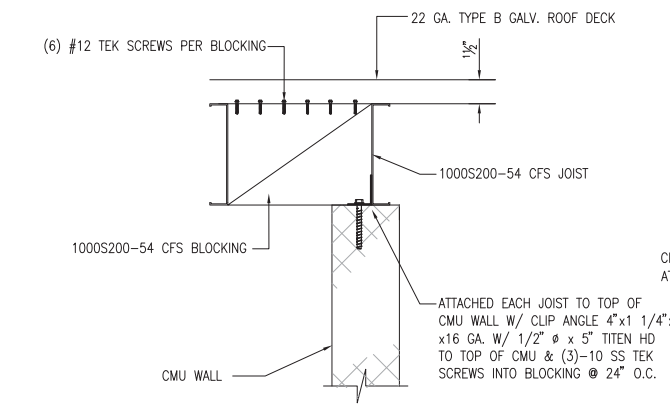
4 TYP. PIPE SLEEVE FOOTING
NOT TO SCALE



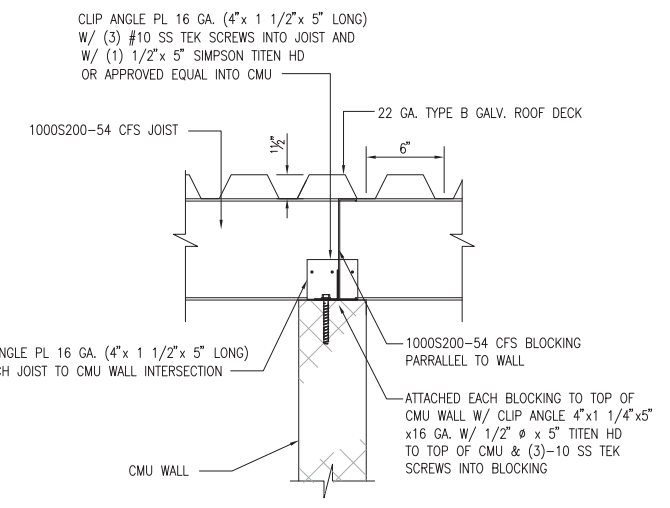
1 GRADE BEAM DETAIL
NOT TO SCALE



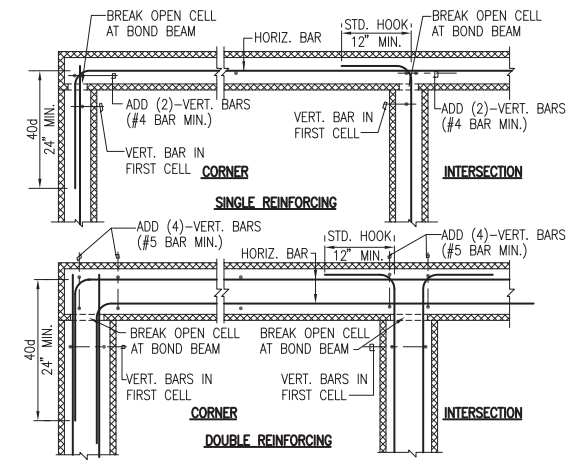
2 CMU WALL AND FOOTING DET.
NOT TO SCALE



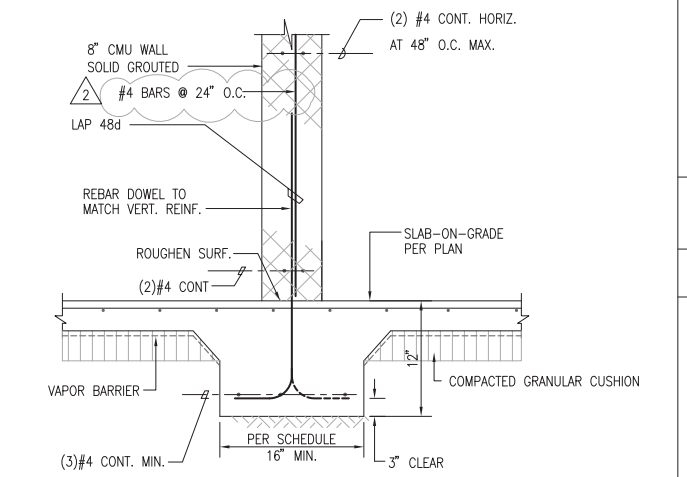
10 JOIST PARALLEL TO CMU WALL
NOT TO SCALE



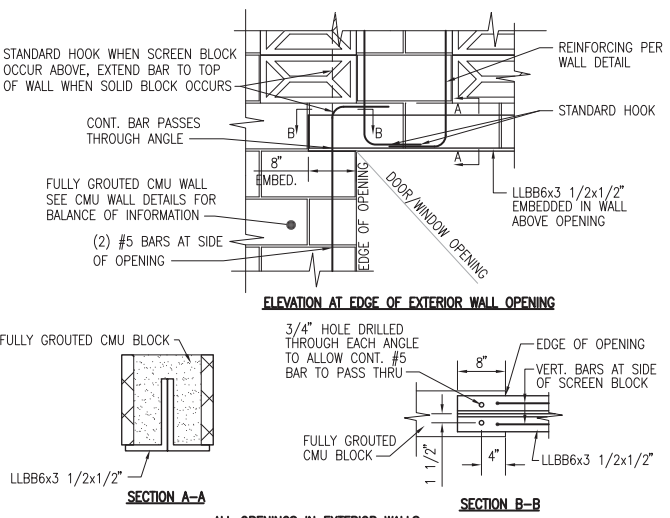
8 JOIST TO CMU WALL
NOT TO SCALE



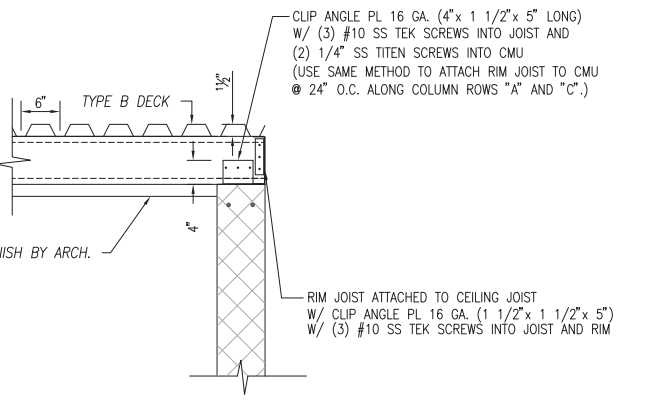
5 CMU WALL CORNERS AND INTERSECTIONS
NOT TO SCALE



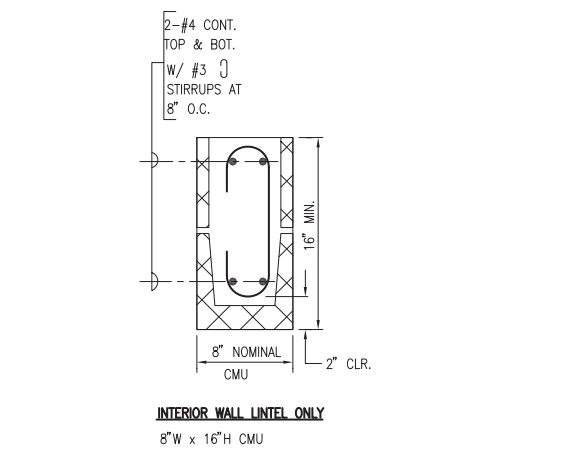
2 CMU WALL AND FOOTING DET.
NOT TO SCALE



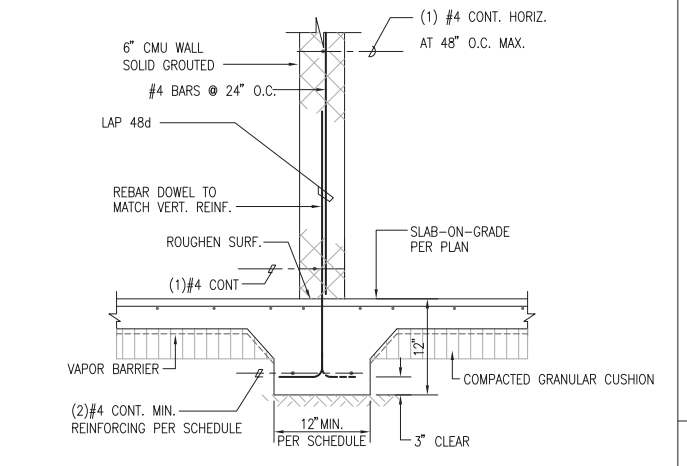
11 LINTEL BEAM DETAIL
NOT TO SCALE



9 JOIST TO CMU WALL
NOT TO SCALE



6 LINTEL BEAM DETAIL
NOT TO SCALE



3 6 inch CMU WALL AND FOOTING DET.
NOT TO SCALE

Engineering Partners, Inc.
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www.epintegrated.com

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

[Signature]
SIGNATURE

MARK	DATE	DESCRIPTION
1	2014-4-10	ADD. 3: LAP SPICE ON DETAILS 2, 3 & 7 CHANGED TO 48d
2	2014-5-7	ADD. 6: DETAILS 1 & 11 REVISED FOR CLARITY. DET. 2-VERTICAL BARS CHANGED

DESIGNED BY: JTB
DRAWN BY: JTB
CHECKED BY: YWF

SHEET NO. S-PC302

PAHOA PARK MASTER PLAN
PHASE I - BID SUBMITTAL 2014-02-10

COUNTY OF HAWAII
DEPARTMENT OF PARKS & RECREATION
101 PAUHAU STREET, SUITE 201, HILO, HAWAII 96720 / PHONE: 808.961.8311 / FAX: 808.961.8411

PAHOA, PUNA, HAWAII

COVERED PLAYCOURT STRUCTURAL DETAILS

JOB NO.: PR-4234

DATE: 2014-02-10

OF SHEETS

TMK: (3) 1-5-002-020

